

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Original): A process for the preparation of at least one organic compound by heterogeneously catalyzed partial gas-phase oxidation of at least one organic precursor compound in a reactor loaded with catalyst, in which at least one portion of the components of the reaction gas starting mixture is brought from a low initial pressure to a higher final pressure by means of a compressor, wherein the compressor used is a radial compressor.

Claim 2 (Currently Amended): ~~[[A]]~~ The process as claimed in claim 1, wherein the at least one portion comprises air.

Claim 3 (Currently Amended): ~~[[A]]~~ The process as claimed in claim 1, wherein the at least one portion contains at least one chemical compound having at least one ethylenically unsaturated double bond.

Claim 4 (Currently Amended): ~~[[A]]~~ The process as claimed in claim 3, wherein the at least one chemical compound having at least one ethylenically unsaturated double bond is ~~[[a]]~~ at least one member of selected from the group consisting of acrolein, methacrolein, acrylic acid, methacrylic acid, acrylonitrile and methacrylonitrile.

Claim 5 (Currently Amended): ~~[[A]]~~ The process as claimed in ~~any of claims claim 1 to 4,~~ wherein the heterogeneously catalyzed partial gas-phase oxidation is the partial oxidation of propylene to acrolein and/or acrylic acid or the partial oxidation of acrolein to acrylic acid.

Claim 6 (Currently Amended): ~~[[A]] The process as claimed in any of claims claim 1 to 4,~~ wherein the heterogeneously catalyzed partial gas-phase oxidation is the partial oxidation of propane to acrylic acid.

Claim 7 (Currently Amended): ~~[[A]] The process as claimed in any of claims claim 1 to 4,~~ wherein the heterogeneously catalyzed partial gas-phase oxidation is a partial ammoxidation.

Claim 8 (Currently Amended): ~~[[A]] The process as claimed in any of claims claim 1 to 7,~~ wherein the at least one portion comprises recycle gas.

Claim 9 (Currently Amended): ~~[[A]] The process as claimed in any of claims claim 1 to 5 and 8,~~ which is a heterogeneously catalyzed partial fixed-bed gas-phase oxidation of propene to acrylic acid, taking place in two successive steps, the propene space velocity of the fixed catalyst bed for the first step from propene to acrolein being ≥ 135 l (S.T.P.) per l per h and the acrolein space velocity of the fixed catalyst bed for the second step from acrolein to acrylic acid being ≥ 125 l (S.T.P.) per l per h.

Claim 10 (Currently Amended): ~~[[A]] The process as claimed in claim 9,~~ the propene space velocity being ≥ 140 l (S.T.P.) per l per h and the acrolein space velocity being ≥ 130 l (S.T.P.) per l per h.

Claim 11 (New): The process as claimed in claim 1, wherein the radial compressor is a gear radial compressor.

Claim 12 (New): The process as claimed in claim 1, wherein the radial compressor is a multistage radial compressor.

Claim 13 (New): The process is claimed in claim 1, wherein the radial compressor is a gear turbo radial compressor.

Claim 14 (New): The process as claimed in claim 1, wherein the process is carried out at a temperature from 100 to 600°C.

Claim 15 (New): The process as claimed in claim 1, wherein the at least one portion comprises at least one chemical compound having at least one ethylenically unsaturated double bond and/or air.

Claim 16 (New): The process as claimed in claim 1, wherein the at least one portion comprises reaction gas starting mixture and recycle gas and the compressor is a single radial compressor.